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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,591	01/13/2006	Yaacov Almog	200209944-4	2055
22879 77590 07/22/2011 HEWLETT-PACKARD COMPANY Intellectual Property Administration			EXAMINER	
			FLETCHER III, WILLIAM P	
3404 E. Harmo Mail Stop 35	ony Road		ART UNIT	PAPER NUMBER
FORT COLLINS, CO 80528			1717	
			NOTIFICATION DATE	DELIVERY MODE
			07/22/2011	ELECTRONIC .

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

JERRY.SHORMA@HP.COM ipa.mail@hp.com laura.m.clark@hp.com

Application No. Applicant(s) 10/564.591 ALMOG ET AL. Office Action Summary Examiner Art Unit WILLIAM PHILLIP FLETCHER III -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 04 May 2011. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) 9.10 and 18-24 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-8 and 11-17 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Eraftsperson's Patent Drawing Seview (PTC-942)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Response to Arguments

 Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-8 and 11-17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The instant specification discloses only ISOPAR and not the any and all branched-chain aliphatic hydrocarbons encompassed by the claim, as amended.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made. Application/Control Number: 10/564,591

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3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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- Claims 1-8 and 11-17, are rejected under 35 U.S.C. 103(a) as being unpatentable over Lambert (US 5,656,378 A) in view of Nakajima et al. (US 6,547,385 B2)
 - A. Claim 1 This reference teaches the claimed process in which a substrate is coated with a solution/dispersion of a polymer (i.e., a first material) and an amine-terminated mordant and dried. See 3:46-48 and 52-55. As noted below, Lambert teaches PET, which is a plastic according to Applicant's disclosure at 1:7. This reference does not teach the claimed "carrier liquid," but teaches that known hydrophilic organic liquids may be utilized [4:bottom]. Nakajima is cited as evidence that glycerin,

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a simple, branched-chain aliphatic hydrocarbon, is known as a hydrophilic carrier for ink jet inks. As such, it would have been obvious to one skilled in the art to utilize such a material as the hydrophilic organic liquid motivated by the desire and expectation of successfully providing an ink vehicle [4:bottom]. Since the combination of the prior art teaches the claimed composition, the composition is expected to have the same properties as the claim, absent evidence to the contrary.

- B. Claim 4 This reference teaches a tri-primary amine. See 4:top.
- C. Claim 7 This reference teaches propylene oxide-based triamines[4:top].
- D. Claim 8 This reference teaches that the polymer may be poly vinyl alcohol. See 5:35.
- E. Claim 11 This reference teaches that the substrate can be PET [5:12].
- F. Claim 12 This reference teaches that the substrate can be polypropylene [5:10].
- G. Claims 2, 3, 5, and 6
 - This reference does not expressly teach the mono/diamines claimed.
 - ii. It is the Primary Examiner's position that any known amine of suitable molecular weight [3:64-65] may advantageously be utilized in the process of Lambert.

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iii. Consequently, it would have been obvious to one skilled in the art to utilize, as the amine mordant, the amines of these claims, motivated by the desire and expectation of similar results: the production of an amine mordant.

H. Claim 13

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i. While this reference does not teach NaOH, it does teach pH

adjustment via NH₄OH. See the Examples.

ii. It is the Primary Examiner's position that, since NaOH and NH₄OH

are both known bases that may be used to lower the pH of a solution, it

would have been readily obvious to one skilled in the art to substitute one

for the other, with the expectation of similar results: pH adjustment.

Claims 14-17

i. This reference does not expressly teach the claimed concentration

of amine material.

ii. The amount of amine material in the mordant is a result-effective

material affecting the ink accepting ability of the sheet. Consequently, it

would have been obvious to one skilled in the art to optimize this

concentration by routine experimentation, absent evidence of criticality.

See MPFP 2144 05

Conclusion

 Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP Art Unit: 1717

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to WILLIAM PHILLIP FLETCHER III whose telephone number is (571)272-1419. The examiner can normally be reached on Monday through Friday, 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dah-Wei Yuan can be reached on (571) 272-1295. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/William Phillip Fletcher III/ Primary Examiner, Art Unit 1715

18 July 2011